

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0026] on page 8 of the specification as filed with the following:

[0026] In some embodiments, the domain corresponding to residues 1-167 of Figure 2 comprises a sequence according to Formula (I).(SEQ ID NO: 05):

Ser-Φaa₁-Φaa₂-Xaa-Xaa₁-Φaa₃-Φaa₄-Xaa₂-Baa₁-Σaa₁-Xaa₃-Asn-Xaa₄-Xaa₅-Φaa₆-Xaa₇-Leu-Xaa₈-Xaa₉-Xaa₁₀-Xaa₁₁-Xaa₁₂-Xaa₁₃-Baa₂-Xaa₁₄-Åaa₁-Leu-Xaa₁₅-Xaa₁₆-Leu-Xaa₁₇-Xaa₁₈-Σaa₂-Leu-Leu-Arg-Xaa₁₉-His-Σaa₃-Φaa₆-Leu-Åaa₂-Ωaa₁-Ala-Ωaa₂-Σaa₄-Arg-Xaa₂₀-Xaa₂₁-Xaa₂₂-Xaa₂₃-Xaa₂₄-Xaa₂₅-Xaa₂₆-Ser-Leu-Val-Xaa₂₇-Φaa₇-Φaa₈-Xaa₂₈-Xaa₂₉-Leu-Lys-Åaa₃-Xaa₃₀-Ala-Tyr-Asp-Ala-Åaa₄-Asp-Φaa₉-Leu-Åaa₅-Glu-Φaa₁₀-Glu-Xaa₃₁-Xaa₃₂-Ala-Xaa₃₃-Baa₃-Xaa₃₄-Lys-Val

(I)

wherein: each of Φ₁₋₁₀ is independently selected from any hydrophobic amino acid residue, Zaa is a neutral/polar amino acid residue, each of Σaa₁₋₄ is independently selected from any small amino acid residue, each of Baa₄₋₃ is independently selected from any basic amino acid residue, each of Åaa₄₋₅ is independently selected from any acidic amino acid residue, each of Ωaa₁₋₂ is independently selected from any charged amino acid residue, and Xaa₁₋₃₃ are each independently selected from any amino acid residue.

Please replace paragraph [0037] on pages 10-11 of the specification as filed with the following:

[0037] In some embodiments, the domain corresponding to residues 168-536 of Figure 2 comprises a sequence according to Formula (II).(SEQ ID NO: 06):

Arg-Xaa₁-Xaa₂-Thr-Σaa₁-Ser-Φaa₁-Leu-Thr-Glu-Σaa₂-Xaa₃-Φaa₂-Φaa₃-Gly-Arg-Xaa₄-Gln-Åaa₁-Baa₁-Glu-Xaa₅-Φaa₄-Φaa₅-Ωaa₁-Leu-Leu-Leu-Åaa₂-Σaa₃-Σaa₄-Xaa₆-Gly-Xaa₇-Xaa₈-Σaa₅-Phe-Σaa₆-Val-Φaa₆-Pro-Φaa₇-Val-Gly-Φaa₈-Gly-Gly-Xaa₉-Gly-Lys-Thr-Thr-Leu-Σaa₇-Gln-Leu-Φaa₉-Φaa₁₀-Asn-Asp-Xaa₁₀-Arg-Val-Xaa₁₁-Xaa₁₂-Xaa₁₃-Phe-Xaa₁₄-Leu-Baa₂-Φaa₁₁-Trp-Val-Cys-Val-Ser-Asp-Xaa₁₅-Phe-Xaa₁₆-Val-Lys-Arg-Φaa₁₂-Thr-Baa₃-Glu-Ile-Xaa₁₇-Glu-Xaa₁₈-Ala-Thr-Xaa₁₉-Xaa₂₀-Ωaa₂-Xaa₂₁-Xaa₂₂-Asp-Xaa₂₃-Xaa₂₄-Asn-Leu-Xaa₂₅-Xaa₂₆-Leu-Gln-Xaa₂₇-Xaa₂₈-Leu-Lys-Glu-Ωaa₃-Ile-Xaa₂₉-Σaa₈-Xaa₃₀-Xaa₃₁-Phe-Leu-Leu-Val-Leu-Asp-Asp-Val-Trp-

Xaa₃₂-Glu-Xaa₃₃-Xaa₃₄-Xaa₃₅-Ωaa₄-Trp-Glu-Xaa₃₆-Leu-Xaa₃₇-Ala-Pro-Leu-Ωaa₅-Xaa₃₈-Σaa₉-
Σaa₁₀-Arg-Gly-Ser-Xaa₃₉-Val-Ile-Val-Thr-Thr-Xaa₄₀-Xaa₄₁-Xaa₄₂-Lys-Φaa₁₃-Ala-Xaa₄₃-Φaa₁₄-
Xaa₄₄-Gly-Thr-Met-Ωaa₆-Xaa₄₅-Φaa₁₅-Xaa₄₆-Leu-Äaa₃-Xaa₄₇-Leu-Xaa₄₈-Äaa₄-Asp-Xaa₄₉-Xaa₅₀-
Trp-Xaa₅₁-Leu-Φaa₁₆-Ωaa₇-Xaa₅₂-Xaa₅₃-Σaa₁₁-Phe-Xaa₅₄-Xaa₅₅-Xaa₅₆-Xaa₅₇-Xaa₅₈-Σaa₁₂-Xaa₅₉-
Xaa₆₀-Xaa₆₁-Xaa₆₂-Ωaa₈-Φaa₁₇-Glu-Xaa₆₃-Ile-Gly-Arg-Lys-Ile-Ala-Xaa₆₄-Lys-Φaa₁₈-Xaa₆₅-Gly-
Xaa₆₆-Pro-Φaa₁₉-Σaa₁₃-Ala-Xaa₆₇-Σaa₁₄-Φaa₂₀-Gly-Xaa₆₈-Φaa₂₁-Leu-Arg-Xaa₆₉-Ωaa₉-Xaa₇₀-
Σaa₁₅-Xaa₇₁-Xaa₇₂-Xaa₇₃-Trp-Arg-Xaa₇₄-Φaa₂₂-Φaa₂₃-Glu-Σaa₁₆-Glu-Xaa₇₅-Trp-Xaa₇₆-Φaa₂₄-
Pro-Xaa₇₇-Ala-Xaa₇₈-Xaa₇₉-Äaa₅-Φaa₂₅-Leu-Σaa₁₇-Xaa₈₀-Leu-Xaa₈₁-Xaa₈₂-Ser-Tyr-Xaa₈₃-Xaa₈₄-
Leu-Pro-Σaa₁₈-Xaa₈₅-Leu-Baa₄-Xaa₈₆-Cys-Phe-Ala-Phe-Cys-Ala-Φaa₂₆-Phe-Xaa₈₇-Lys-Xaa₈₈-
'Tyr-Xaa₈₉-Phe-Xaa₉₀-Lys-Ωaa₁₀-Xaa₉₁-Leu-Ile-Xaa₉₂-Xaa₉₃-Trp-Ile-Ala-Xaa₉₄-Xaa₉₅-Φaa₂₇-Ile

(II)

wherein: each of Φ₁₋₂₇ is independently selected from any hydrophobic amino acid residue,
each of Σaa₁₋₁₈ is independently selected from any small amino acid residue,
each of Baa₁₋₄ is independently selected from any basic amino acid residue,
each of Äaa₁₋₅ is independently selected from any acidic amino acid residue,
each of Ωaa₁₋₁₀ is independently selected from any charged amino acid residue,
and
Xaa₁₋₉₅ are each independently selected from any amino acid residue.

Please replace paragraph [0056] on pages 15-16 of the specification as filed with the following:

[0056] In some embodiments, the domain corresponding to residues 537-1476 of Figure 2 comprises a sequence according to Formula (III) (SEQ ID NO: 07):

Leu-Xaa₁-Ωaa₁-Xaa₂-Φaa₁-Phe-Baa₁-Xaa₃-Leu-Xaa₄-Arg-Ile-Baa₂-Val-Leu-Xaa₅-Φaa₂-
Xaa₆-Xaa₇-Cys-Xaa₈-Φaa₃-Baa₃-Xaa₉-Leu-Pro-Xaa₁₀-Xaa₁₁-Φaa₄-Gly-Xaa₁₂-Leu-Xaa₁₃-Xaa₁₄-
Leu-Arg-Tyr-Leu-Xaa₁₅-Φaa₅-Ser-Xaa₁₆-Asn-Σaa₁-Xaa₁₇-Ile-Gln-Arg-Leu-Pro-Glu-Ser-Φaa₆-
Xaa₁₈-Ωaa₂-Leu-Xaa₁₉-Xaa₂₀-Leu-Gln-Σaa₂-Leu-Xaa₂₁-Leu-Xaa₂₂-Gly-Cys-Xaa₂₃-Leu-Xaa₂₄-
Xaa₂₅-Φaa₇-Pro-Xaa₂₆-Σaa₃-Met-Ser-Baa₄-Leu-Φaa₈-Xaa₂₇-Leu-Arg-Gln-Leu-Baa₅-Xaa₂₈-Xaa₂₉-
Xaa₃₀-Äaa₁-Φaa₉-Ile-Σaa₄-Ωaa₃-Ile-Xaa₃₁-Ωaa₄-Val-Gly-Baa₆-Leu-Ile-Xaa₃₂-Leu-Gln-Glu-Leu-
Xaa₃₃-Ala-Φaa₁₀-Xaa₃₄-Val-Xaa₃₅-Xaa₃₆-Baa₇-Xaa₃₇-Gly-Xaa₃₈-Xaa₃₉-Φaa₁₁-Ala-Glu-Leu-Ser-

Σaa₅-Φaa₁₂-Xaa₄₀-Gln-Leu-Baa₈-Σaa₆-Xaa₄₁-Leu-Xaa₄₂-Ile-Xaa₄₃-Asn-Leu-Xaa₄₄-Asn-Val-Xaa₄₅-Xaa₄₆-Xaa₄₇-Ωaa₅-Glu-Σaa₇-Xaa₄₈-Lys-Ala-Baa₉-Leu-Ωaa₆-Ωaa₇-Lys-Gln-Xaa₄₉-Leu-Ωaa₈-Xaa₅₀-Leu-Āaa₂-Leu-Ωaa₉-Trp-Ala-Xaa₅₁-Gly-Xaa₅₂-Xaa₅₃-Xaa₅₄-Xaa₅₅-Xaa₅₆-Xaa₅₇-Xaa₅₈-Glu-Xaa₅₉-Xaa₆₀-Xaa₆₁-Xaa₆₂-Ωaa₁₀-Ωaa₁₁-Val-Leu-Xaa₆₃-Gly-Leu-Xaa₆₄-Pro-His-Xaa₆₅-Xaa₆₆-Leu-Baa₁₀-Xaa₆₇-Leu-Σaa₈-Ile-Baa₁₁-Xaa₆₈-Tyr-Σaa₉-Gly-Σaa₁₀-Σaa₁₁-Xaa₆₉-Pro-Ser-Trp-Φaa₁₃-Xaa₇₀-Xaa₇₁-Xaa₇₂-Φaa₁₄-Leu-Pro-Asn-Φaa₁₅-Xaa₇₃-Thr-Φaa₁₆-Baa₁₂-Leu-Ωaa₁₂-Xaa₇₄-Cys-Σaa₁₂-Arg-Leu-Xaa₇₅-Xaa₇₆-Leu-Σaa₁₃-Xaa₇₇-Φaa₁₇-Gly-Gln-Leu-Xaa₇₈-Xaa₇₉-Leu-Baa₁₃-Xaa₈₀-Leu-His-Φaa₁₈-Ωaa₁₃-Xaa₈₁-Met-Σaa₁₄-Xaa₈₂-Val-Baa₁₄-Gln-Φaa₁₉-Xaa₈₃-Xaa₈₄-Xaa₈₅-Φaa₂₀-Xaa₈₆-Gly-Xaa₈₇-Σaa₁₅-Ωaa₁₄-Xaa₈₈-Xaa₈₉-Xaa₉₀-Phe-Pro-Xaa₉₁-Leu-Glu-Xaa₉₂-Leu-Xaa₉₃-Φaa₂₁-Ωaa₁₅-Ωaa₁₆-Met-Pro-Σaa₁₆-Leu-Ωaa₁₇-Glu-Φaa₂₂

(III)

wherein: each of Φ₁₋₂₂ is independently selected from any hydrophobic amino acid residue,
each of Σaa₁₋₆ is independently selected from any small amino acid residue,
each of Baa₁₋₁₄ is independently selected from any basic amino acid residue,
each of Āaa₁₋₂ is independently selected from any acidic amino acid residue,
each of Ωaa₁₋₁₆ is independently selected from any charged amino acid residue,
and
Xaa₁₋₉₃ are each independently selected from any amino acid residue.